AUTHOR INDEX TO VOLUME 82

Al-Hawery, A.S., see J.S. Thorp 82 (1989) 277
Allia, P., Viscosity field and magnetic-permeability aftereffect in amorphous ferromagnets: a kinetic approach 82 (1989) 77
Altounian, Z., see Y. Xu 82 (1989) 43
Andresen, A.F., see L. Dobrzynski 82 (1989) 67
Araki, S., see T. Takahata 82 (1989) 287
Auric, P., J.M. Greneche, O. de Bouvier and J.J. Rameau, Surface properties of amorphous and crystallized Fe–Cr–P–C–Si ribbons by conversion electron Mössbauer spectroscopy (CEMS) 82 (1989) 243
Aylesworth, K.D., Z.R. Zhao, D.J. Sellmyer and G.C. Hadjipanayis, Growth and control of the microstructure and magnetic properties of sputtered $Nd_2Fe_{14}B$ films and multilayers 82 (1989) 48

Babić, E., see J. Horvat 82 (1989) 5
Barnaś, J. and P. Grünberg, Spin waves in exchange-coupled epitaxial double-layers 82 (1989) 186
Bärner, K., J.W. Schünemann, G.A. Govor and U. Sondermann, A martensitic-like transformation in MnAs? 82 (1989) 199
Bärner, K., see K. Heinemann 82 (1989) 204
Bauer, E., see J. Kohlmann 82 (1989) 169
Bażela, W. and A. Szytuła, Magnetic properties of $U_{1-x}Th_xMn_2Si_2$ and $U(Mn_{1-x}Fe_x)_2Si_2$ 82 (1989) 151
Becker, C., see A. Zielinski 82 (1989) 33
Blakemore, N., see S. Krueger 82 (1989) 17
Blakemore, R.P., see S. Krueger 82 (1989) 17
Buschow, K.H.J., see P. Schobinger-Papamantellos 82 (1989) 99
Buschow, K.H.J., see M. Mittag 82 (1989) 109

Chang, W.C., see S.K. Chen 82 (1989) 12
Chen, S.K., J.G. Duh, H.C. Ku and W.C. Chang, Magnetic and crystallographic properties of the permanent magnet system $Nd_2(Co_{1-x}M_x)_{14}B$ (M = Ni, Cu, Ga, Ge) 82 (1989) 12
Chirwa, M., see D.A. Read 82 (1989) 83
Chistjakov, O.D., see M. Jurczyk 82 (1989) 239
Chuang, Y.C., see X.C. Kou 82 (1989) 327
Coleman, P., Some new perspectives on two dimensional antiferromagnetism (*E.P. Wohlfarth lecture*) (*Topical review*) 82 (1989) 159

Da Cunha, S.F., see A.Y. Takeuchi 82 (1989) 181
De Bouvier, O., see P. Auric 82 (1989) 243
Dietz, G., see A. Zielinski 82 (1989) 33
Dobrzynski, L. and A.F. Andresen, On the magnetic double helical structure in MnP- and MnAs-based alloys 82 (1989) 67
Duh, J.G., see S.K. Chen 82 (1989) 12
Dunlap, R.A., see D.A. Read 82 (1989) 87
Duraj, M., R. Duraj and A. Szytuła, Magnetic properties of the $Sm_{1-x}Y_xMn_2Ge_2$ system 82 (1989) 319
Duraj, R., see M. Duraj 82 (1989) 319

Elk, K., see R. Scholl 82 (1989) 235
Erdmann, K. and M. Rosenberg, Transferred hyperfine fields at Y sites in $Y_2TM_{14}B$ compounds 82 (1989) 273

Fieber, M., see K. Heinemann 82 (1989) 204
Fremy, M.A., D. Gignoux, D. Schmitt and A.Y. Takeuchi, Magnetic properties of the hexagonal CeAlGa compound 82 (1989) 175

Gignoux, D., see M.A. Fremy 82 (1989) 175
González, J. and K. Kułakowski, Stress and field induced magnetic anisotropies in Co-rich amorphous alloys 82 (1989) 94
Gorby, Y.A., see S. Krueger 82 (1989) 17
Govor, G.A., see K. Bärner 82 (1989) 199
Greneche, J.M., see P. Auric 82 (1989) 243
Grössinger, R., see X.C. Kou 82 (1989) 327
Grünberg, P., see J. Barnaś 82 (1989) 186

Hadjipanayis, G.C., see K.D. Aylesworth 82 (1989) 48
Hallam, G.C., see D.A. Read 82 (1989) 83
Hallam, G.C., see D.A. Read 82 (1989) 87
Heinemann, K., C. Michaelsen, M. Fieber and K. Bärner, $(Fe_{1-x}Mn_x)_{75}P_{15}C_{10}$ – an ideally mixed amorphous metallic glass? 82 (1989) 204
Horvat, J., Ž. Marohnić and E. Babić, The influence of pinning centres on magnetization and loss in Fe–Ni–B–Si amorphous alloys 82 (1989) 5
Hussain, M.S., see G. Khattak 82 (1989) 353

Ishii, Y. and M. Sato, Magnetic behavior of a film with columnar structure 82 (1989) 309

Jahn, L., see R. Scholl 82 (1989) 235
Jassim, S., see D.A. Read 82 (1989) 87
Jaworska, T., A. Szytuła, J. Leciejewicz and H. Ptasiewicz-Bąk, Magnetic ordering in $TbRh_{2-x}Ru_xSi_2$ solid solution 82 (1989) 313
Jurczyk, M. and O.D. Chistjakov, Structure and magnetism of the $YFe_{10-x}Co_xV_2$ system 82 (1989) 239

Keith, V., see G. Khattak 82 (1989) 353
Khattak, G., M.S. Hussain and V. Keith, Low temperature specific heat of $[Cu(dach)_2]Cl_2$ (*Short communication*) 82 (1989) 353
Kido, G., see H. Saito 82 (1989) 322
Kirchmayr, H.R., see X.C. Kou 82 (1989) 327
Kohlmann, J., E. Bauer and K. Winzer, Field and frequency dependent low temperature properties of $CeCu_4Ga$: a reply to comments by Dhar and Gschneidner 82 (1989) 169
Konguetsof, Hel., see I.P. Semitelou 82 (1989) 223
Kou, X.C., X.K. Sun, Y.C. Chuang, T.S. Zhao, R. Grössinger and H.R. Kirchmayr, Exchange interaction and magnetic anisotropy in $Nd_2(Fe_{13}M)B$ compounds (M = Ga, Si, Al) 82 (1989) 327
Kowalczyk, A., Magnetic and crystallographic properties of substituted $Pr_2Fe_{14-x}M_xB$ compounds (M = Si, Ga, Cr and Cu) (*Letter to the Editor*) 82 (1989) L1
Krueger, S., G.J. Olson, J.J. Rhyne, R.P. Blakemore, Y.A. Gorby and N. Blakemore, Small angle neutron and X-ray scattering from magnetite cyrstals in magnetotactic bacteria 82 (1989) 17
Ku, H.C., see S.K. Chen 82 (1989) 12
Kułakowski, K., see J. González 82 (1989) 94

Langell, M.A., Y.G. Ren and D.J. Sellmyer, AES/XPS studies of oxidized R_2Fe_4B alloys 82 (1989) 213
Leciejewicz, J., see T. Jaworska 82 (1989) 313
Lenz, D., see A. Zielinski 82 (1989) 33
Lipowski, A. and Z. Onyszkiewicz, Temperature and pressure variation of magnon spectrum of $FeCl_2$ metamagnet 82 (1989) 254
Liu, S.H., Critical temperature of pseudo-one- and -two-dimensional magnetic systems 82 (1989) 294
Lücke, K., see A. Zielinski 82 (1989) 33

Mahmood, S.H. and A.S. Saleh, Mössbauer study of the alloy system $FeAl_{1-x}Co_x$ 82 (1989) 63
Maj, W., Evidence for Coulomb interaction effect in the low-temperature resistivity of amorphous $GdCo_3$ films 82 (1989) 118
Marohnić, Ž., see J. Horvat 82 (1989) 5
Michaelsen, C., see K. Heinemann 82 (1989) 204
Mikhov, M., see O. Popov 82 (1989) 29
Miltat, J., A. Thiaville and P. Trouilloud, Néel lines structures and energies in uniaxial ferromagnets with quality factor $Q > 1$ 82 (1989) 297
Mittag, M., M. Rosenberg and K.H.J. Buschow, A magnetization study of $RCo_{12}B_6$ intermetallics 82 (1989) 109
Moyo, T., see D.A. Read 82 (1989) 87
Muir, W.B., see Y. Xu 82 (1989) 43

Nakagawa, H., see H. Saito 82 (1989) 322

Olson, G.J., see S. Krueger 82 (1989) 17
Onyszkiewicz, Z., see A. Lipowski 82 (1989) 254

Palewski, T., The UAs–YSe solid solutions in high magnetic fields 82 (1989) 265
Pecora, L.M., The reconstruction of the anisotropy free energy function from magnetic torque data 82 (1989) 57
Popov, O. and M. Mikhov, Thermal activation and the Hopkinson effect 82 (1989) 29
Ptasiewicz-Bąk, H., see T. Jaworska 82 (1989) 313

Ram, S., Crystallisation of $BaFe_{12}O_{19}$ hexagonal ferrite with an aid of B_2O_3 and the effects on microstructure and magnetic properties useful for permanent magnets and magnetic recording devices 82 (1989) 129
Rameau, J.J., see P. Auric 82 (1989) 243
Read, D.A., G.C. Hallam and M. Chirwa, The origin of susceptibility peaks in Fe–Zr amorphous alloys 82 (1989) 83
Read, D.A., T. Moyo, S. Jassim, R.A. Dunlap and G.C. Hallam, Hyperfine field distributions and magnetic properties of melt-spun and sputtered Fe-rich Fe–Zr amorphous alloys 82 (1989) 87
Ren, Y.G., see M.A. Langell 82 (1989) 213
Rhyne, J.J., see S. Krueger 82 (1989) 17
Rosenberg, M., see M. Mittag 82 (1989) 109
Rosenberg, M., see K. Erdmann 82 (1989) 273

Saito, H., M. Takahashi, T. Wakiyama, G. Kido and H. Nakagawa, Magnetocrystalline anisotropy for $Sm_2(Co–Mn)_{17}$ compound with $TbCu_7$ type disordered structure 82 (1989) 322
Saleh, A.S., see S.H. Mahmood 82 (1989) 63
Sato, M., see Y. Ishii 82 (1989) 309
Schmitt, D., see M.A. Fremy 82 (1989) 175
Schobinger-Papamantellos, P. and K.H.J. Buschow, Modulated structure and weak ferromagnetism in Nd_3Ge_5 studied by neutron diffraction and magnetic measurements 82 (1989) 99

Scholl, R., K. Elk and L. Jahn, Application of the SPD-method to crystalline and polycrystalline permanent magnetic materials 82 (1989) 235
Schünemann, J.W., see K. Bärner 82 (1989) 199
Sellmyer, D.J., see K.D. Aylesworth 82 (1989) 48
Sellmyer, D.J., see M.A. Langell 82 (1989) 213
Semitelou, I.P., Hel. Konguetsof and J.K. Yakinthos, The modulated magnetic structure of Ho_5Sb_3 82 (1989) 223
Shinjo, T., see T. Takahata 82 (1989) 287
Skinner, A.R., see J.S. Thorp 82 (1989) 277
Sondermann, U., see K. Bärner 82 (1989) 199
Stefański, P. and A. Wrzeciono, Structural and magnetic properties of $RFe_{10}Si_2$ compounds 82 (1989) 125
Sun, X.K., see X.C. Kou 82 (1989) 327
Szytuła, A., see W. Bażela 82 (1989) 151
Szytuła, A., see T. Jaworska 82 (1989) 313
Szytuła, A., see M. Duraj 82 (1989) 319

Takahashi, M., see H. Saito 82 (1989) 322
Takahata, T., S. Araki and T. Shinjo, Magnetism and magnetoresistance of Au/Co multilayers 82 (1989) 287
Takayama, T., see K. Yoshida 82 (1989) 228
Takeuchi, A.Y., see M.A. Fremy 82 (1989) 175
Takeuchi, A.Y. and S.F. da Cunha, Effects of Al substitution by Fe in $CeAl_2$ 82 (1989) 181
Thiaville, A., see J. Miltat 82 (1989) 297
Thorp, J.S., A.R. Skinner and A.S. Al-Hawery, Magnesiochromite formation and EPR linewidths in Cr/MgO 82 (1989) 277
Trouilloud, P., see J. Miltat 82 (1989) 297

Vezzoli, G.C., Role of rare earth substituted for Y in high-T_c $Y_1Ba_2Cu_3O_{7-\delta}$ superconductor: polarizing of fluctuations from antiferromagnetism; breakdown of Cooper pairing at close proximity 82 (1989) 335

Wakiyama, T., see H. Saito 82 (1989) 322
Winzer, K., see J. Kohlmann 82 (1989) 169
Wrzeciono, A., see P. Stefański 82 (1989) 125

Xu, Y., W.B. Muir and Z. Altounian, The origin of the apparent decrease in coercivity with quench rate in melt spun Nd–Fe–B alloys 82 (1989) 43

Yakinthos, J.K., see I.P. Semitelou 82 (1989) 223
Yoshida, K. and T. Takayama, Origin of perpendicular magnetic anisotropy of Co–CoO evaporated film 82 (1989) 228

Zhao, T.S., see X.C. Kou 82 (1989) 327
Zhao, Z.R., see K.D. Aylesworth 82 (1989) 48
Zheng, S.m., Properties of diluted anisotropic Heisenberg spin one ferromagnets 82 (1989) 249
Zielinski, A., G. Dietz, C. Becker, D. Lenz and K. Lücke, Effect of magnetic field on ultrasonic attenuation in nickel single crystals 82 (1989) 33

SUBJECT INDEX TO VOLUME 82

Actinides 82 (1989) 151, 265
Aftereffect 82 (1989) 77
Amorphous systems
– Fe alloys 82 (1989) 83, 87
– ferromagnets 82 (1989) 77
– metallic glasses 82 (1989) 94, 204, 243
– soft magnetic materials 82 (1989) 5
– thin films 82 (1989) 118
Anisotropy
– diluted ferromagnet 82 (1989) 249
– field-induced 82 (1989) 94
– free energy 82 (1989) 57
– magnetocrystalline 82 (1989) 186, 322
– perpendicular 82 (1989) 228, 287
– RE compounds 82 (1989) 327
– stress-induced 82 (1989) 94
Anisotropy fields 82 (1989) 125, 235, 239
Antiferromagnetism 82 (1989) 335
– 2D 82 (1989) 159
Auger electron spectroscopy 82 (1989) 213

Bloch lines 82 (1989) 297

Coercivity 82 (1989) 5, 87
– intrinsic 82 (1989) 43
Conversion electron Mössbauer spectroscopy 82 (1989) 243
Cooper pairs 82 (1989) 335
Crystal structure 82 (1989) 99, 313
Curie temperature
– composition-dependent 82 (1989) 1, 12, 87, 109, 125, 151, 239, 249

Diluted ferromagnets 82 (1989) 249
Disordered magnetic materials 82 (1989) 249, 322
Domain walls
– oscillating 82 (1989) 77
Dzyaloshinskii–Moriya interaction 82 (1989) 67

Electron paramagnetic resonance
– linewidth 82 (1989) 277
Exchange
– constant 82 (1989) 186
Exchange interactions 82 (1989) 125, 327

Ferrites 82 (1989) 129
Ferromagnets
– uniaxial 82 (1989) 297
Frustration 82 (1989) 159

Hall resistivity 82 (1989) 335
Heisenberg ferromagnet 82 (1989) 249, 294
Helical structure 82 (1989) 67
High magnetic field 82 (1989) 265
Hopkinson effect 82 (1989) 29
Hyperfine fields 82 (1989) 63
– distribution 82 (1989) 87, 243
– transferred 82 (1989) 273
Hysteresis loss 82 (1989) 5

Interaction effects
– Coulomb 82 (1989) 118
Isomer shifts 82 (1989) 63

Kondo effect 82 (1989) 181

Magnetic hardness 82 (1989) 83
Magnetic moments 82 (1989) 204
Magnetic ordering 82 (1989) 151, 313
Magnetic phase diagram 82 (1989) 12, 67, 319
Magnetic recording
– perpendicular 82 (1989) 228, 309
Magnetic recording media 82 (1989) 129
Magnetic structure 82 (1989) 67
– modulated 82 (1989) 99, 223
Magnetic torque 82 (1989) 57
Magnetite 82 (1989) 17
Magnetization
– bulk 82 (1989) 175
– distribution 82 (1989) 297
– field-dependent 82 (1989) 12, 181, 235
– processes 82 (1989) 309
– remanent 82 (1989) 5
– saturation 82 (1989) 1, 109, 125, 228, 239
– temperature-dependent 82 (1989) 199, 249, 265, 327
Magnetoelasticity 82 (1989) 33
Magnetoresistance
– multilayers 82 (1989) 287
Magnetotactic bacteria 82 (1989) 17
Magnons 82 (1989) 254
Metallic glasses 82 (1989) 94, 204, 243
Metamagnet
– field-induced 82 (1989) 254
Microstructure 82 (1989) 48, 228
Monte Carlo simulation 82 (1989) 67
Mössbauer spectroscopy
– Fe alloys

82 (1989) 63, 87
– metallic glasses 82 (1989) 204, 243
Multilayers 82 (1989) 48, 186, 287

Néel lines 82 (1989) 297
Neutron diffraction 82 (1989) 99, 175, 223, 313
Neutron scattering
– inelastic 82 (1989) 175
– small angle 82 (1989) 17
Nuclear magnetic resonance
– spin echo 82 (1989) 273

One-dimensional systems
– pseudo- 82 (1989) 294

Paramagnetism 82 (1989) 63
Particles
– ferrite 82 (1989) 129
Permanent magnets 82 (1989) 12, 43, 48, 125, 129, 213, 235, 327
Permeability
– magnetic 82 (1989) 77
Phase transitions
– ferro–antiferromagnetic 82 (1989) 319
– ferro–paramagnetic 82 (1989) 109
– martensitic-like 82 (1989) 199
– para–antiferromagnetic 82 (1989) 265
– spin-reorientation 82 (1989) 125
Pinning process
– anomalous 82 (1989) 83
Pressure effect 82 (1989) 254, 319

Quenching 82 (1989) 43

Rare earth
– compounds 82 (1989) 223
– digermanides 82 (1989) 99
Rare earth–transition metal alloys 82 (1989) 43, 48, 213
Rare earth–transition metal compounds 82 (1989) 109, 125, 239, 273, 313, 319, 322, 327
Resistivity
– low-temperature 82 (1989) 118
– temperature-dependent 82 (1989) 175, 181
– time-dependent 82 (1989) 335

Short-range order 82 (1989) 204
Singular point detection 82 (1989) 235
Soft magnetic materials 82 (1989) 5
Specific heat 82 (1989) 169
– low-temperature 82 (1989) 353
Spin polarization 82 (1989) 335
Spin reorientation 82 (1989) 327
Spin waves
– layer compounds 82 (1989) 186
Spinels 82 (1989) 277
Stoner–Wohlfarth model 82 (1989) 29
Superconductivity
– high-T_c 82 (1989) 159, 335
Superstructure 82 (1989) 287
Surface properties 82 (1989) 243
Susceptibility
– ac 82 (1989) 169, 319
– low temperature 82 (1989) 83
– temperature-dependent 82 (1989) 99, 109, 175, 181, 199, 204, 313

Ternary rare earth compounds 82 (1989) 1, 109, 125, 239, 319
Texture
– magnetic 82 (1989) 243
Thermal activation 82 (1989) 29
Thin films 82 (1989) 48, 228
– columnar structure 82 (1989) 309
– ultra- 82 (1989) 287
Two-dimensional systems 82 (1989) 159
– pseudo- 82 (1989) 294

Ultrasonic attenuation 82 (1989) 33

Vibrating sample magnetometer 82 (1989) 48
Viscocity field 82 (1989) 77

Weak ferromagnetism 82 (1989) 99

X-ray diffraction 82 (1989) 48, 125, 151, 239, 313, 322
X-ray photoelectron spectroscopy 82 (1989) 213
X-ray scattering 82 (1989) 17